SAMSUNG

DVD Player
DVD-P731M

SAMSUNG ELECTRONICS

HEADQUARTERS
105 Challenger Road, Ridgefield Park,
N.J.07660-0511
TEL: 1-800-SAMSUNG

SERVICE DIVISION
400 Valley Road, Suite 201, Mount Arlington,
NJ 07856
1-800-SAMSUNG (1-800-726-7864)
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DVD
V I D E O

US   AK68-00153H

Important Safety Instructions

1) Read these instructions.
2) Keep these instructions.
3) Heed all warnings.
4) Follow all instructions.
5) Do not use this apparatus near water.
6) Clean only with dry cloth.
7) Do not block any ventilation openings, Install in accordance with the manufacturer's instructions.
8) Do not install near any heat sources such as radiators, heat registers, or other apparatus (including amplifiers) that produce heat.
9) Do not defeat the safety purpose of the polarized or grounding- type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10) Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11) Only use attachments/accessories specified by the manufacturer.
12) Use only with cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus.
13) Unplug this apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
14) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

Precautions

TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE THE COVER(OR BACK).
NO USER-SERVICEABLE PARTS ARE INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

This symbol indicates "dangerous voltage" inside the product that presents a risk of electric shock or personal injury.

This symbol indicates important instructions accompanying the product.

Do not install this equipment in a confined space such as a bookcase or similar unit.

WARNING : To prevent damage which may result in fire or electric shock hazard, do not expose this appliance to rain or moisture.

CAUTION : DVD PLAYERS USE AN INVISIBLE LASER BEAM WHICH CAN CAUSE HAZARDOUS RADIATION EXPOSURE IF DIRECTED. BE SURE TO OPERATE PLAYER CORRECTLY AS INSTRUCTED.

CAUTIONS
Caution: To prevent electric shock, match wide blade of plug to wide slot, fully insert.
Attention: Pour éviter les chocs électriques, introduíre la lame la plus large de la fiche dans la borne correspondante de la prise et pousser jusqu au fond.
This product satisfies FCC regulations when shielded cables and connectors are used to connect the unit to other equipment. To prevent electromagnetic interference with electric appliances, such as radios and televisions, use shielded cables and connectors for connections.

FCC NOTE (for U.S.A):
This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on.
The user is encouraged to try to correct the interference by one or more of the following measures.
• Reorient or relocate the receiving antenna.
• Increase the separation between the equipment and receiver.
• Connect this equipment into an outlet on a circuit different from that to which the receiver is connected.
• Consult the dealer or an experienced radio/TV technician for help.
  This class B digital apparatus meets all requirements of the Canadian Interference --
  Causing Equipment Regulations.

CLASS 1	LASER PRODUCT
KLASSE 1	LASER PRODUKT
LUOKAN 1	LASER LAITE
KLASS 1	LASER APPARAT
PRODUCTO	LÁSER CLASE 1

Precautions

Before You Start

CAUTION

THIS PRODUCT UTILIZES A LASER. USE OF CONTROLS OR ADJUSTMENTS OR
PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN
HAZARDOUS RADIATION EXPOSURE. DO NOT OPEN COVER AND DO NOT REPAIR YOURSELF.
REFER SERVICING TO QUALIFIED PERSONNEL.

Note:

• This unit can be used only where the power supply is AC 120V, 60Hz. It cannot be used elsewhere.
• This DVD player is designed and manufactured to respond to the Region Management Information.
 If the Region number of a DVD disc does not correspond to the Region number of this DVD player,
 the DVD player cannot play the disc.
• This device is protected by U.S. patent numbers 4,631,603, 4,577,216, 4,819,098 and 4,907,093 and
 other intellectual property rights. The use of Macrovision's copy protection technology in the device
 must be authorized by Macrovision and is intended for home and other limited pay-per-view uses
 only, unless otherwise authorized in writing by Macrovision.
 Reverse engineering or disassembly is prohibited.

Handling Cautions

• Before connecting other components to this player, be sure to turn them all off.
• Do not move the player while a disc is being played, or the disc may be scratched or broken, and the
 player's internal parts may be damaged.
• Do not put a flower vase filled with water or any small metal objects on the player.
• Be careful not to put your hand into the disc tray.
• Do not place anything other than the disc in the disc tray.
• Exterior interference such as lightning and static electricity can affect normal operation of this player. If this
 occurs, turn the player off and on again with the POWER button, or disconnect and then reconnect the
 AC power cord to the AC power outlet. The player will operate normally.
• Be sure to remove the disc and turn off the player after use.
• Disconnect the AC power cord from the AC outlet when you don't intend to use the player for long
 periods of time.
• Clean the disc by wiping in a straight line from the inside to the outside of the disc.

Disc Storage

Be careful not to harm the disc because the data on these discs is highly vulnerable to the environment.
• Do not keep under direct sunlight.
• Keep in a cool ventilated area.
• Store vertically.
• Keep in a clean protection jacket.

Maintenance of Cabinet

For safety reasons, be sure to disconnect the AC power cord from the AC outlet.
• Do not use benzene, thinner, or other solvents for cleaning.
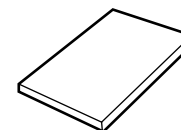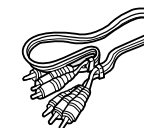• Wipe the cabinet with a soft cloth.

Accessories

Remote Control
(AK59-00012E)

Batteries for
Remote Control (AAA Size)
(AC43-12002H)

User's Manual
(AK68-00153H)

Video/Audio Cable
(AC39-42001R)

Install Batteries in the Remote

1 Open the battery cover on the back of the remote.

2 Insert two AAA batteries. Make sure that the polarities (+ and -) are aligned correctly.

3 Replace the battery cover.

If remote doesn't operate properly:

• Check the polarity + - of the batteries (Dry-Cell)

• Check if the batteries are drained.

• Check if remote sensor is blocked by obstacles.

• Check if there is any fluorescent lighting nearby.

Table of contents

General Features

Excellent Sound
Dolby Digital, a technology developed by Dolby Laboratories, provides crystal clear sound reproduction.

Screen
Both regular and widescreen(16:9) pictures can be viewed.

Slow Motion
An important scene can be viewed in slow motion.

Programmed Play
You can program tracks to play in desired order. (CD/MP3/WMA)

Parental Control
The parental control allows users to set the level necessary to prohibit children from viewing harmful movies such as those with violence, adult subject matter, etc.

Various On-Screen Menu Functions
You can select various languages (Audio/Subtitle) and screen angles while enjoying movies.

Progressive Scan
Progressive scanning creates an improved picture with double the scan lines of a conventional interlaced picture.

Memory Card
"Memory Card" is a new compact, portable and versatile IC (Integrated Circuit) recording medium with a data capacity that exceeds a floppy disk.

EZ VIEW
Easy View can convert Letter Box images to full screen viewing on your conventional TV.

Digital Photo Viewer (JPEG)
You can view Digital Photos on your TV.

Repeat
You can repeat a song or movie simply by pressing the REPEAT button.

MP3/WMA
This unit can play discs created from MP3/WMA files.

Instant Replay
This function is used to replay the previous 10 seconds of the movie from the current position.

Instant Skip
This function skips playback ahead 10 seconds.

NOTE
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* Discs which cannot be played with this player.
   • DVD-ROM   • DVD-RAM
   • CD-ROM   • CDV
   • CDI
   • HD layer of super Audio CD
   • CDGs play audio only, not graphics.
* Ability to play back may depend on recording conditions.
   • DVD-R, +R   • CD-RW
   • DVD+RW, -RW
* It may not be to play CD-R, CD-RW and DVD-R in all cases due to the type of disc or condition of the recording.

COPY PROTECTION

• **Many DVD discs are encoded with copy protection. Because of this, you should only connect your DVD player directly to your TV, not to a VCR. Connecting to a VCR results in a distorted picture from copy-protected DVD discs.**

• This product incorporates copyright protection technology that is protected by methods claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited.

Disc Type and Characteristics

This DVD player is capable of playing the following types of discs with the corresponding logos:

Disc Types (Logos)	Recording Types	Disc Size	Max. Playing Time	Characteristics
DVD	Audio + Video	5"	Single-sided 240 min. Double-sided 480 min.	• DVD contains excellent sound and video due to Dolby Digital and MPEG-2 system. • Various screen and audio functions can be easily selected through the on-screen menu.
		3 1/2"	Single-sided 80 min. Double-sided 160 min.	
AUDIO-CD	Audio	5"	74 min.	• CD is recorded as a Digital Signal with better audio quality, less distortion and less deterioration of audio quality over time.
		3 1/2"	20 min.	

Disc Markings

• Play Region Number

NTSC
• NTSC broadcast system in U.S.A, Canada, Korea, Japan, etc.

DOLBY DIGITAL
• Dolby Digital disc

STEREO
• Stereo disc

DIGITAL SOUND
• Digital Audio disc

dts
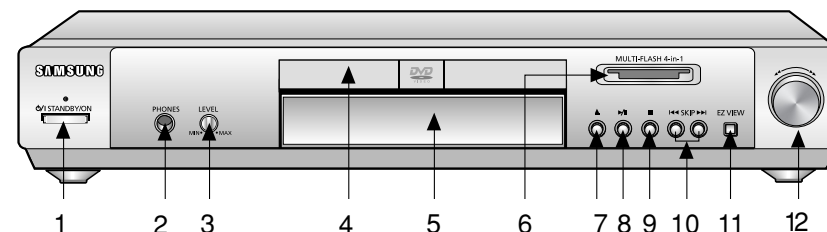• DTS disc

MP3
DIGITAL DISC PLAYBACK
• MP3 disc

Play Region Number

Both the DVD player and the discs are coded by region. These regional codes must match in order for the disc to play. If the codes do not match, the disc will not play.

**The Region Number for this player is described on the rear panel of the player.**

8

Description-Front Panel

Front Panel Controls

1. STANDBY / ON
• When the unit is first plugged in, the indicator lights. When STANDBY/ON is pressed on again, the light goes out and the player is turned on.

2. HEADPHONES JACK
• You can attach headphones here for private listening.

3. HEADPHONES VOLUME
• Use to adjust headphones volume level.

4. DISC TRAY
• Load the disc here.

5. DISPLAY
• Operation indicators are displayed here.

6. MULTI MEMORY CARD SLOT

7. OPEN/CLOSE
• Press to open and close the disc tray.

8. PLAY/PAUSE (▶II)
• Begin or pause disc play.

9. STOP (■)
• Stops disc play.

10. SKIP (I◀◀ / ▶▶I)
• Use to skip a scene or music.

11. EZ VIEW
• Easy View can convert Letter Box images to full screen viewing on your conventional TV.

12. SHUTTLE
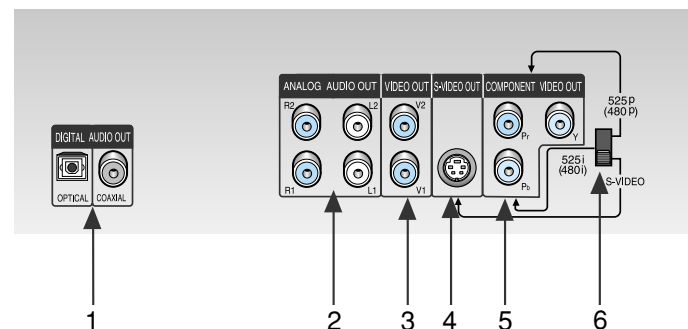• Use during DVD and CD play to fast forward or reverse.

9

Display Indicators

Description-Rear Panel
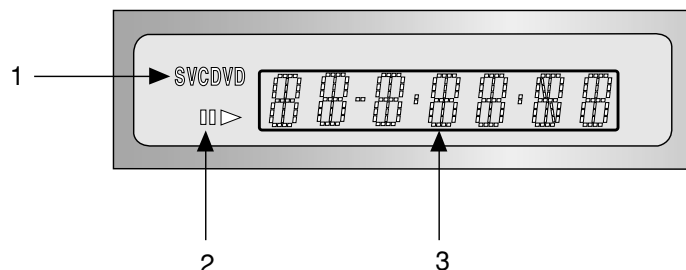
Front Panel Display

1. Disc type indicators

2. Play / Pause / Forward play

3. Displays various messages concerning operations such as PLAY, STOP, LOAD ...
   no DISC : No disc loaded.
   OPEN : The disc tray is open.
   LOAD : Player is loading disc information.

Rear Panel

1. DIGITAL AUDIO OUT JACKS
   • Use either an optical or coaxial digital cable to connect to a compatible Dolby Digital receiver.
     Use to connect to an A/V Amplifier that contains a Dolby Digital or DTS decoder.

2. ANALOG AUDIO OUT JACKS
   • Connect to the Audio input jacks of your television, audio/video receiver, or VCR.

3. VIDEO OUT JACK
   • Use a video cable to connect to the Video input jack on your television.
   • The VIDEO OUT SELECT switch must be set to the 525i(480i) or S-VIDEO position.

4. S-VIDEO OUT JACK
   • Use the S-Video cable to connect this jack to the S-Video jack on your television for a higher quality picture.
   • The VIDEO OUT SELECT switch must be set to the S-VIDEO position.

5. COMPONENT VIDEO OUT JACKS
   • Use these jacks if you have a TV with Component Video in jacks. These jacks provide Pr, Pb and Y
     video. Along with S-Video, Component Video provides the best picture quality.
   • If 525P(480P) VIDEO is selected, progressive scan mode will work.
   • If 525i(480i) VIDEO is selected, interlaced scan mode will work.

6. VIDEO OUT SELECT SWITCH
   • Use this switch to set video out.
   • If 525P(480P) VIDEO is selected, VIDEO and S-VIDEO will not work.

Important Note

• Consult your TV User's Manual to find out if your TV supports Progressive Scan.
  If Progressive Scan is supported, follow the TV User's Manual's instructions regarding Progressive
  Scan settings in the TV's menu system.
• If 525P(480P) VIDEO OUT is selected, VIDEO and S-VIDEO will not work.
• Select the VIDEO OUT SELECT switch in the Stop or Power Off mode.

Tour of the Remote Control
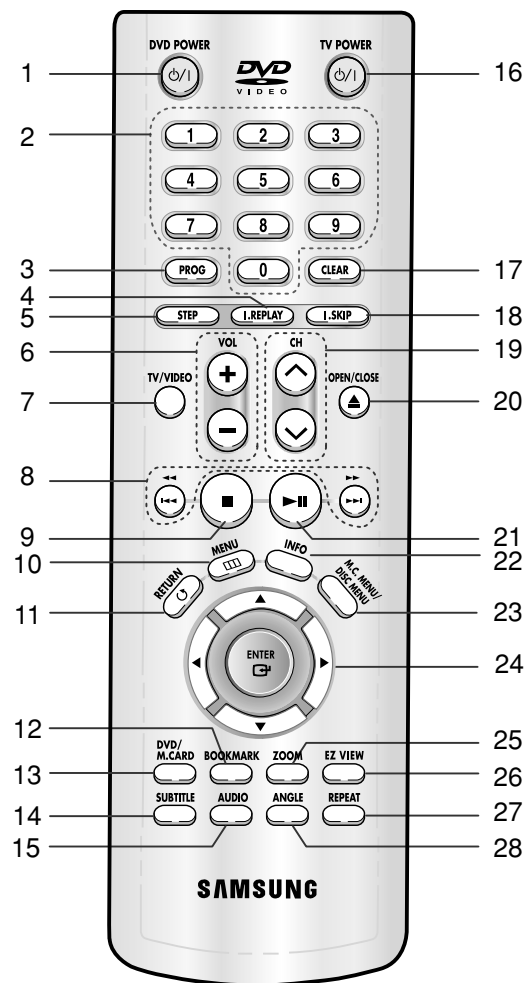
Tour of the Remote Control

DVD Function Buttons

1. DVD POWER Button
• Turns the DVD player's power on or off.

2. NUMBER Buttons

3. PROG Button
• Allows you to program a specific order.

4. I.REPLAY Button
• This function is used to replay the previous 10 seconds of the movie from the current position.

5. STEP button
• Advances play one frame at a time.

6. VOL +/- buttons
• Control volumes.

7. TV/VIDEO button
• Press to display all of the available video sources (i.e., TV, Cable, Video)

8. SEARCH/SKIP buttons (◀◀ / ▶▶ ,|◀◀ / ▶▶|)
• Allows you to search forward/backward through a disc. Use to skip the title, chapter or track.

9. STOP button (■)

10. MENU button (▭)
• Brings up the DVD player's setup menu.

11. RETURN button (↺)
• Returns to a previous menu.

12. BOOKMARK button
• Use this to save a favorite scene within a movie.

13. DVD/M.CARD button

14. SUBTITLE button
• Press this to switch the DVD's subtitle language.

15. AUDIO button
• Use this button to access various audio functions on a disc.

16. TV POWER button
• Turns the TV's power on or off.

17. CLEAR button
• Use to remove menus or status displays from the screen.

18. I.SKIP button
• This function skips playback ahead 10 seconds.

19. CH ∧ / ∨ buttons
• Channel selection.

20. OPEN/CLOSE (▲) button
• To open and close the disc tray.

21. PLAY/PAUSE (▶||) button
• Begin/Pause disc play.

22. INFO button
• Displays the current disc mode.

23. M.C. MENU/DISC MENU button
• Brings up the Disc menu.

24. ENTER/DIRECTION buttons
(UP/DOWN or LEFT/RIGHT buttons)
• This button functions as a toggle switch.

25. ZOOM button
• Enlarges DVD picture.

26. EZ VIEW button
• Easy View can convert Letter Box images to full screen viewing on your conventional TV.

27. REPEAT button
• Allows you to repeat a title, chapter, track or disc.

28. ANGLE button
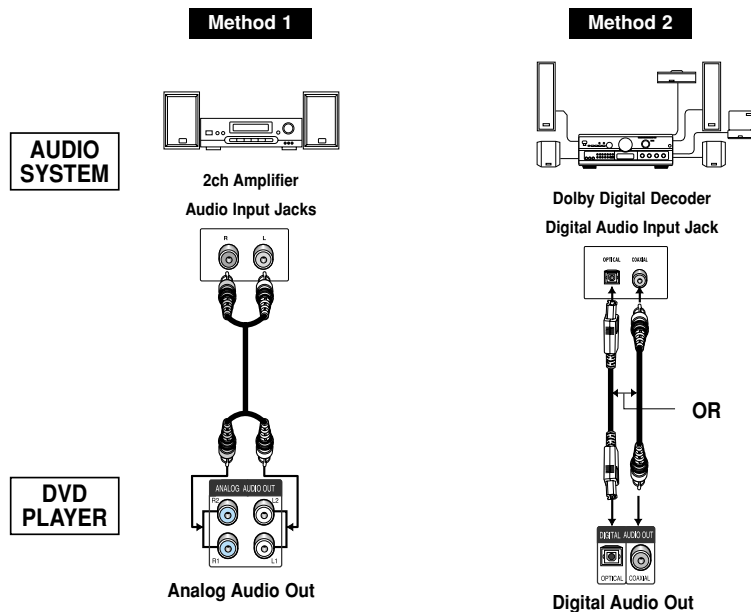• Use to access various camera angles on a DVD.

Choosing a Connection

The following show examples of connections commonly used to connect the DVD player with a TV and other components.

Before Connecting the DVD Player

• Always turn off the DVD player, TV, and other components before you connect or disconnect any cables.

• Refer to the owner's manual of the additional components you are connecting for more information on those particular components.
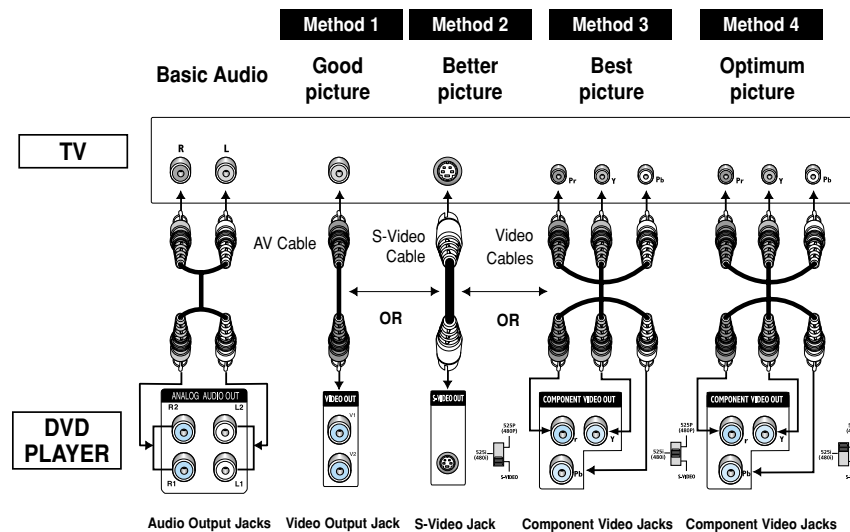
Connection to an Audio System

Method 1

AUDIO SYSTEM

2ch Amplifier
Audio Input Jacks

DVD PLAYER

ANALOG AUDIO OUT

Analog Audio Out

Method 2

Dolby Digital Decoder

Digital Audio Input Jack

OPTICAL   COAXIAL

OR

DIGITAL AUDIO OUT
OPTICAL COAXIAL

Digital Audio Out

Choosing a Connection

Connection to a TV (For Video)

TV (Normal, Widescreen, Projection, etc..)

	Method 1	Method 2	Method 3	Method 4
Basic Audio	Good picture	Better picture	Best picture	Optimum picture

TV

R L   Pr Y Pb   Pr Y Pb

AV Cable   S-Video Cable   Video Cables

OR   OR

DVD PLAYER

ANALOG AUDIO OUT   VIDEO OUT   S-VIDEO OUT   COMPONENT VIDEO OUT   COMPONENT VIDEO OUT

Audio Output Jacks   Video Output Jack   S-Video Jack   Component Video Jacks   Component Video Jacks

Method 1 DVD Player + TV with Video Input Jack
(The VIDEO OUT SELECT switch must be set to the S-VIDEO position.)

Method 2 DVD Player + TV with S-Video Input Jack
(The VIDEO OUT SELECT switch must be set to the S-VIDEO position.)

Method 3 DVD Player + TV with Component Video Jacks
(The VIDEO OUT SELECT switch must be set to the 525i(480i) position.)

Method 4 DVD Player + TV with Progressive Scan Jacks.
(The VIDEO OUT SELECT switch must be set to the 525P(480P) position).
• If 525P(480P) VIDEO OUT is selected, VIDEO and S-VIDEO will not work.
• Depending on your TV, your hookup for Method 4 may differ from the illustration.

Important Note

Consult your TV User's Manual to find out if your TV supports Progressive Scan. If Progressive Scan is supported, follow the TV User's Manual's instructions regarding Progressive Scan settings in the TV's menu system.

CONNECTIONS

Playing a Disc

Playing a Disc

Before Play

• Turn on your TV and press the TV/VIDEO button to select the video mode.
• Turn on your Audio System and select AUX, CD or DVD.

After plugging in the player, the first time you press the DVD POWER button, this screen comes up :
If you want to select the language, press a NUMBER button.
(This screen will only appear the very first time you plug in the player.)

```
SELECT MENU LANGUAGE

Press    1   for English
Touche   2   pour Français
Drücken Sie 3 für Deutsch
Pulsar   4   para Español
Premere  5   per Italiano
Druk op  6   voor Nederlands
```

Play

1 Press the OPEN/CLOSE button.
The STANDBY indicator light goes out and the tray opens.

2 Place a disc gently into the tray with the disc's label facing up.

3 Press the PLAY/PAUSE (▶❙❙) button or OPEN/CLOSE button to close the disc tray.
- Audio CD is played autometically.

4 Stopping Play
Press the STOP (■) button during play.

5 Removing Disc
Press the OPEN/CLOSE button.

6 Pausing Play
Press the PLAY/PAUSE (▶❙❙) or STEP button on the remote during play.
- Screen stops, no sound.
- To resume again, press PLAY/PAUSE (▶❙❙) button once again.

7 Step Motion Play (Only DVD)
Press the STEP button on the remote during play.
- Each time the button is pressed, a new frame will appear.
- No sound is heard during STEP mode.
- Press PLAY/PAUSE (▶❙❙) to resume normal play.
  (You can only perform step motion play in the forward direction.)

8 Slow Motion Play (Only DVD)
Press and hold the ▶▶❙ button to choose the play speed between 1/8, 1/4 and 1/2 of normal during PAUSE or STEP mode.
- No sound is heard during slow mode.
- Press PLAY/PAUSE (▶❙❙) to resume normal play.
- Reverse slow motion play will not work.

BASIC FUNCTIONS

RESUME function

When you stop disc play, the player remembers where you stopped, so when you press PLAY (▶❙❙) again, it will pick up where you left off. (unless the disc is removed, the STOP (■) button is pressed twice or the player is unplugged.)

NOTE

• If the player is left for 5 minutes in pause mode, it will stop.
• If the player is left in the stop mode for more than 30 minutes, the power will automatically shut off. (Automatic Power-Off Function)
• If the player is left in the stop mode for more than one minute without any user interaction, a screen saver will be activated. Press the PLAY (▶❙❙) button to resume normal play.
• This ⊘ icon indicates an invalid button press.

Using the Search & Skip Functions

During play, you can search quickly through a chapter or track or use the skip function to jump to the next selection.

Searching through a Chapter or Track

During play, press the SEARCH (◄◄ or ►►) button on the remote.

• Press the SEARCH (◄◄ or ►►) button on the remote for more than 1 second and press again or press continuously to search at a faster speed on the DVD, CD.

DVD	2X, 4X, 8X, 16X, 32X, 128X
CD	2X, 4X, 8X

Skipping Tracks

During play, press the ◄◄ or ►►| button.

• When playing a DVD, if you press the ►►| button, it moves to the next chapter.
If you press the ◄◄| button, it moves to the beginning of the chapter.
One more press makes it move to the beginning of the previous chapter.

• When playing a CD, if you press the ►►| button, it moves to next track.
If you press the ◄◄| button, it moves to the beginning of the track. One more press makes it move to the beginning of the previous track.

Using the Display Function

When Playing a DVD/CD

1 During play, press the INFO button on the remote.

2 Use the UP/DOWN buttons to select the desired item.

3 Use the LEFT/RIGHT buttons to make the desired setup.
• You may use the number buttons of the remote control to directly access a title, chapter or to start the playback from the desired time.

4 To make the screen disappear, press the INFO button again.
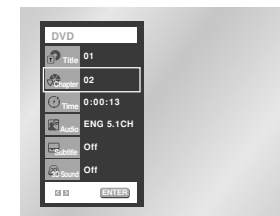
Title To access the desired title when there is more than one on the disc. For example, if there is more than one movie on a DVD, each movie will be identified.

Chapter Most DVD discs are recorded in chapters so that you can quickly find a specific passage. (similar to tracks on an audio CD).

Time Allows playback of the film from a desired time. You must enter the starting time as a reference.

Audio Refers to the language of the film soundtrack. In the example, the soundtrack is played in English 5.1CH. A DVD disc can have up to eight different soundtracks.

Subtitle Refers to the subtitle languages available in the disc. You will be able to choose the subtitles language or, if you prefer, turn them off from the screen. A DVD disc can have up to 32 different subtitles.

3D Sound A surround sound effect is generated using only two front speakers.

DVD

DVD	
Title	01
Chapter	02
Time	0:00:13
Audio	ENG 5.1CH
Subtitle	Off
Sound	Off

CD

CD	
Track	01
Time	0:00:48
Sound	Off

BASIC FUNCTIONS

Using the Disc and Title Menu

Using the Disc Menu

1 During the playback of a DVD disc, press the MENU button on the remote.

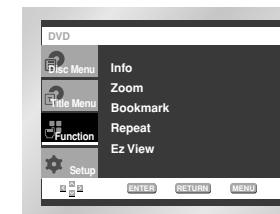2 Select **Disc Menu** using the UP/DOWN buttons, then press the RIGHT or ENTER button.

```
DVD
Disc Menu    Press ENTER key
Title Menu   for Disc Menu
Function
Setup
             ENTER  RETURN  MENU
```

Using the Title Menu

1 During the playback of a DVD disc, press the MENU button on the remote.

2 Select **Title Menu** using the UP/DOWN buttons, then press the RIGHT or ENTER button.

```
DVD
Disc Menu    Press ENTER key
Title Menu   for Title Menu
Function
Setup
             ENTER  RETURN  MENU
```

NOTE

• Depending on the disc, the Title and Disc Menus may not work.
• Title Menu will only be displayed if there are at least two titles in the disc.
• You can also use the Disc Menu, using the M.C. MENU/DISC MENU button on the remote.

Using the Function Menu

Using the Function Menu

1 Press the MENU button during playback.

2 Use the UP/DOWN buttons to highlight **Function**, then press the RIGHT or ENTER button.

3 Function selection screen appears: Info, Zoom, Bookmark, Repeat and EZ View.
 - Info (See Page 19)
 - Zoom (See Page 31)
 - Bookmark (See Page 30)
 - Repeat (See Page 22)
 - EZ View (See Page 24~25)

4 Use the UP/DOWN button to highlight one of the 5 functions. Then press the RIGHT or ENTER button to access the function.

```
DVD
Disc Menu    Info
Title Menu   Zoom
Function     Bookmark
             Repeat
Setup        Ez View
             ENTER  RETURN  MENU
```

BASIC FUNCTIONS

NOTE

• You can also directly select these functions using their respective buttons on the remote.

20

21

Repeat Play

Repeat the current track, chapter, title, a chosen section (A-B), or all of the disc.

When playing a DVD

1 Press the REPEAT button on the remote.
Repeat screen appears.

2 Select Chapter, Title or A-B using the
LEFT/RIGHT buttons.

3 Press ENTER.

4 To return to normal play, press REPEAT again,
then press the LEFT/RIGHT buttons to select Off
and press ENTER.

DVD

Chapter Title A - B ENTER

CD

Track Disc A - B ENTER
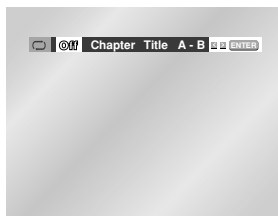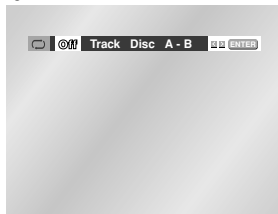
NOTE

• DVD repeats play by chapter or title, CD repeat play by disc or track.
• Depending on the disc, the Repeat function may not work.
• A-B REPEAT does not allow you to set point (B) until at least 5 seconds has elapsed after point (A) has been set.

Slow Repeat play

This feature allows you slowly repeat scenes containing sports, dancing,
musical instruments being played etc. so you can study them more closely.

When playing a DVD

1 During play, press the PLAY/PAUSE (▶II) button.

2 Press and hold the ▶▶I button to choose the play speed between 1/8, 1/4 and 1/2
of normal during PAUSE or STEP mode.

3 Press the REPEAT button to select the point where the function starts. (A)
(See Page 22)

4 Press the REPEAT button to select the point where the function ends. (B)
(See Page 22)

NOTE

• The disc will play from A to B repeatedly at the speed you chose.
• To terminate the function, press the 'CLEAR' button again.
• A-B REPEAT does not allow you to set point (B) until at least 5 seconds has elapsed after point (A) has been set.

**ADVANCED
FUNCTIONS**

Adjusting the Aspect Ratio (EZ View)

To play back using aspect ratio (DVD)

Press the EZ VIEW button.
- The screen size changes when the button is pressed repeatedly.
- The screen zoom mode operates differently depending on the screen setting in the initial setup menu.
- To ensure correct operation of the EZ VIEW button, you should set the correct aspect ratio in the initial setup (See page 42).

If you are using a 16:9 TV

❶ **For 16:9 aspect ratio discs**

- **Wide Screen**
  Displays the content of the DVD title in 16:9 aspect ratio.

- **Screen Fit**
  The top and bottom of the screen are cut off. When playing a 2.35:1 aspect ratio disc, the black bars at the top and bottom of the screen will disappear. The picture will look vertically stretched. (Depending on the type of disc, the black bars may not disappear completely.)

- **Zoom Fit**
  The top, bottom, left and right of the screen are cut off and the central portion of the screen is enlarged.

❷ **For 4:3 aspect ratio discs**

- **Normal Wide**
  Displays the content of the DVD title in 16:9 aspect ratio. The picture will look horizontally stretched.

- **Screen Fit**
  The top and bottom of the screen are cut off and the full screen appears. The picture will look vertically stretched.

- **Zoom Fit**
  The top, bottom, left and right of the screen are cut off and the central portion of the screen is enlarged.

- **Vertical Fit**
  When a 4:3 DVD is viewed on a 16:9 TV, black bars will appear at the left and right of the screen in order to prevent the picture from looking horizontally stretched.

Adjusting the Aspect Ratio (EZ View)

If you are using a 4:3 TV

❶ **For 16:9 aspect ratio discs**

- **4:3 Letter Box**
  Displays the content of the DVD title in 16:9 aspect ratio. The black bars will appear at the top and bottom of the screen.

- **4:3 Pan Scan**
  The left and right of the screen are cut off and displays the central portion of the 16:9 screen.

- **Screen Fit**
  The top and bottom of the screen are cut off and the full screen appears. The picture will look vertically stretched.

- **Zoom Fit**
  The top, bottom, left and right of the screen are cut off and the central portion of the screen is enlarged.

❷ **For 4:3 aspect ratio discs**

- **Normal Screen**
  Displays the content of the DVD title in 4:3 aspect ratio.

- **Screen Fit**
  The top and bottom of the screen are cut off and the full screen appears. The picture would look vertically stretched.

- **Zoom Fit**
  The top, bottom, left and right of the screen are cut off and the central portion of the screen is enlarged.

ADVANCED FUNCTIONS

NOTE

- This function may behave differently depending on the type of disc.

Selecting the Audio Language

Selecting the Subtitle Language

You can select a desired language quickly and easily with the AUDIO button.

You can select a desired subtitle quickly and easily with the SUBTITLE button.

Using the SUBTITLE button

1 Press the SUBTITLE button.

2 Use the LEFT/RIGHT buttons to select the desired subtitle language.

3 Use the UP/DOWN buttons to determine whether or not the subtitle will be displayed.

- Initially, the subtitling will not appear on screen.
- The subtitle languages are represented by abbreviations.

Using the AUDIO button

1 Press the AUDIO button.

2 Use the LEFT/RIGHT buttons to select the desired language on a DVD.

- The audio languages are represented by abbreviations.

3 Use the LEFT/RIGHT buttons to select Stereo, LEFT or RIGHT. (On CD)

DVD

ENG DOLBY DIGITAL 5.1CH

CD

Stereo

ENG   On

ENG   Off

Changing the Subtitle color

Press the PROG button to change the subtitle color only when the player is in progressive video mode.

ADVANCED FUNCTIONS

Changing the Camera Angle

Using the Instant Replay/Skip Function

When a DVD contains multiple angles of a particular scene, you can select the Angle function.

Using the ANGLE button

Press the ANGLE button to see if an ANGLE (📷) mark is present at the upper left hand corner of the screen.

1 When an ANGLE mark is shown, press the ANGLE button, then an ANGLE select icon will appear at the upper left hand corner of the screen.

2 Use the LEFT/RIGHT buttons to select the desired screen angle.

3 To turn off the display, press the ANGLE button again.

📷 **4/6** ◁ ▷

Using the Instant Replay function (DVD)

If you miss a scene, you can see it again using this function.

If you press the I.REPLAY button, the current scene moves backward about 10 seconds, and plays back.

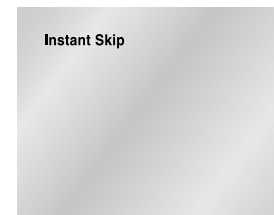* Depending on the disc, the Instant Replay function may not work.

Instant Replay
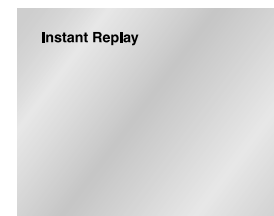
Using the Instant Skip function (DVD)

Use this function to skip playback 10 seconds ahead of the current scene.

Press the I.SKIP button.

- Playback will skip ahead 10 seconds.
- Depending on the disc, this feature may not work.

Instant Skip

ADVANCED FUNCTIONS

Using the Bookmark Function

This feature lets you bookmark sections of a DVD so you can quickly find them at a later time.

Using the Bookmark Function (DVD)

1 During play, press the BOOKMARK button on the remote. The Bookmark icons will be displayed.

2 Use the LEFT/RIGHT buttons to move to the desired bookmark icon.

3 When you reach the scene you want to mark, press the ENTER button. The icon will change to a number (1, 2, or 3).

4 Press the BOOKMARK button to turn off the display.
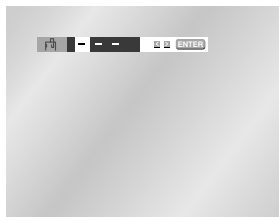
Recalling a Marked Scene

1 During play, press the BOOKMARK button on the remote.

2 Use the LEFT/RIGHT buttons to select a marked scene.

3 Press the PLAY/PAUSE (▶II) buttons to skip to the marked scene.

Clearing a Bookmark

1 During play, press the BOOKMARK button on the remote.

2 Use the LEFT/RIGHT buttons to select the bookmark number you want to delete.

3 Press the CLEAR button to delete a bookmark number. Press the BOOKMARK button to turn off the display.

NOTE

• Up to three scenes may be marked at a time.

• Depending on the disc, the Bookmark function may not work.

30

Using the Zoom & 3D Sound Functions

Using the Zoom Function (DVD)

1 During play or pause mode, press the ZOOM button on the remote.
A zoom mark will be displayed on screen.

2 Use the UP/DOWN or LEFT/RIGHT buttons to select the part of the screen you want to zoom in on.

3 Press the ENTER button.
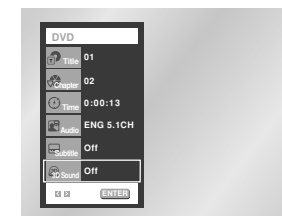- During DVD play, press ENTER to zoom in 2X/4X/2X/Normal in order.
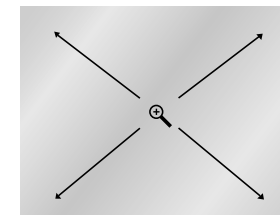
Using the 3D Sound Function

The simulated surround effect depends on the disc contents. If you connect the unit to your stereo system, you can enhance sound quality and produce a greater surround effect.
This feature is useful when you are using the DVD player with a two channel stereo through the analog outputs.
(Discs which are recorded with LPCM or DTS will not work.)

1 During play, press the INFO button.
Use the UP/DOWN buttons to select the 3D Sound.

2 Press the LEFT/RIGHT buttons to turn the 3D Sound feature On or Off.

DVD

DVD	
Title	01
Chapter	02
Time	0:00:13
Audio	ENG 5.1CH
Subtitle	Off
3D Sound	Off
	ENTER

ADVANCED FUNCTIONS

NOTE

• 3D Sound is possible only on discs recorded using DOLBY SURROUND or DOLBY DIGITAL. However, some of these discs do not contain rear channel sound signals.

• Depending on the disc, the Zoom and 3D Sound function may not work.

31

How to insert a Memory Card

This unit accepts 4 different types of Memory cards

This device supports 4 types of memory cards: Memory Stick, SD Card, MMC, and Smart Media Card, which must be inserted as follows.

✳ **Insert the memory card correctly with the label facing up, otherwise it may not work.**

① Memory Stick

② SD Card

③ Multi Media Card

④ Smart Media Card

Types of Memory Cards

Memory Card Capacity

Memory Stick		4MB~128MB, 256MB, 512MB
Secure Digital Card (SD)		4MB~256MB
Multi Media Card (MMC)		4MB~128MB
Smart Media Card (SMC)		4MB~128MB

Memory Cards with FAT16 can be played it their capacity is under 2GB.

NOTE

• Memory Cards over 2GB use FAT 32, which is not compatible with this unit.
• If it is not fully inserted, the "Memory Card" will not work.
• If you remove the "Memory Card" during Memory Card operation the recorded data may become corrupted.
  It is better to remove it after pressing DVD/M.CARD button to return to DVD/CD Mode.
• If you need to format the "Memory Card", use a "Memory Card" compatible device.
• If you format the "Memory Card" using your computer, the "Memory Card" may not work.

MP3/WMA Playback

MP3/WMA Play Function (Memory Card/CD-R)

1 Insert a CD-R written MP3 or WMA file into the tray and close it, or insert a Memory Card, following the photo to the right.

**NOTE** Be sure to insert the Memory Card correctly. (Refer to page 32.)

2 Press the DVD/M.CARD button.
- Every time you push the DVD/M.CARD button, the system enters the Memory Card mode and the DVD/CD mode in turn.
  • Memory Card mode : Plays the Memory Card
  • DVD/CD Mode : Plays the CD-R

3 As the screen shown in the right, it displays the file extensions saved in the memory card CD-R. Press the UP/DOWN button to select a media type you want and press the ENTER button. The first song in the first folder in the selected media will be automatically played.
- If no button on the remote control is pressed for 60 seconds, the menu will disappear and the selected item will be played.
- To change the currently playing media, press the M.C. MENU/DISC MENU button.

4 If you want to hear another song, press the UP/DOWN button to select and press the ENTER button. Press the RIGHT button to see the next page. When there are multiple folders in the same media, press the RETURN button to select the desired folder and press the ENTER button.
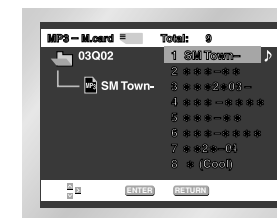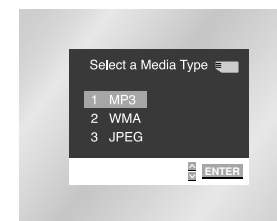
Program/Random playback

Press the PROG button to switch between the RANDOM and PROGRAM modes. See page 35 for more information on these modes.

NOTE

• Press the REPEAT button to listen to selected mp3s continuously and press it once again to release.
• DVD/CD cannot be played in the Memory Card mode. If you push the M.CARD or OPEN/CLOSE button in DVD/M.CARD mode, the system will automatically enter the DVD/CD mode.
• Depending on the recording method, some MP3/WMA CD-Rs may not be replayed.
• PROGRAM/RANDOM playback cannot be used if the memory card or disc contains more than two types of file extensions.
• When pushing the DVD/M.CARD button to play disc again, the player doesn't remember where you stopped.
• It is impossible to write MP3/WMA or Jpeg files to a Memory Card in this unit as it is read only.
• Only MP3/WMA Format files with the " .mp3" and " .wma" extensions can be played.

ADVANCED
FUNCTIONS

MP3/WMA Playback

CD-R/Memory Card (MP3/WMA)

When playing CD-R MP3 or WMA discs, please follow all the recommendations for CD-R on the previous page, plus the comments below:

- **Your MP3 or WMA files should be ISO 9660 or JOLIET format. (CD-R)**
  ISO 9660 format and Joliet MP3 or WMA files are compatible with Microsoft's DOS and Windows, and with Apple's Mac. These two formats are the most widely used.

- **Only Memory Cards with FAT16 format can be played.**

- **When naming your MP3 or WMA files do not exceed 8 characters, and place ".mp3, .wma" as the file extension.**
  General name format of: Title.mp3. or Title.wma. When composing your title, make sure that you use 8 characters or less, have no spaces in the name, and avoid the use of special characters including: (.,/,\,=,+).

- **Use a decompression transfer rate of at least 128 Kbps when recording MP3 files.**
  Sound quality with MP3 files basically depends on the rate of compression/decompression you choose. Getting audio CD quality sound requires an analog/digital sampling rate, that is conversion to MP3 format, of at least 128 Kbps and up to 160 Kbps. However, choosing higher rates, like 192 Kbps or more, only rarely give better sound quality.
  Conversely, files with decompression rates below 128 Kbps will not be played properly.

- **Use a decompression transfer rate of at least 64Kbps when recording WMA files.**
  Sound quality with WMA files basically depends on the rate of compression/decompression you choose. Getting audio CD quality sound requires an analog/digital sampling rate, that is conversion to WMA format, of at least 64Kbps and up to 192Kbps.
  Conversely, files with decompression rates below 64Kbps or over 192Kbps will not be played properly.

- **Do not try recording copyright protected MP3 files.**
  Certain "securized" files are encrypted and code protected to prevent illegal copying. These files are of the following types: Windows Media™ (registered trade mark of Microsoft Inc) and SDMI™ (registered trade mark of The SDMI Foundation). You cannot copy such files.

- **Important:** The above recommendations cannot be taken as a guarantee that the DVD player will play MP3 recordings, or as an assurance of sound quality.
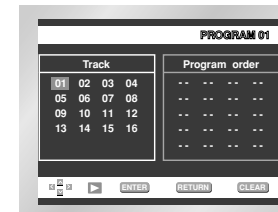 You should note that certain technologies and methods for MP3 file recording on CD-Rs prevent optimal playback of these files on your DVD player (degraded sound quality and in some cases, inability of the player to read the files).
- This unit supports the MP3 file format in the range from 96Kbps to 256Kbps.
- This unit can play a maximum of 500 files and 300 folders per disc. (CD-R)
- This unit can play a maximum of 500 files and 255 folders per Memory Card.

Program Play & Random Play

Program Play (CD/MP3/WMA)

1 Press the PROG button.

2 Use the LEFT/RIGHT buttons to select PROGRAM. Press the ENTER button.

3 Use the LEFT/RIGHT/UP/DOWN buttons to select the first track to add to the program. Press the ENTER button. The selection numbers appear in the Program Order box.

4 Press the PLAY/PAUSE (▶II) button. The disc will be played in programmed order.

PROGRAM ◀▶ RANDOM

PROGRAM 01

Track				Program order			
01	02	03	04	--	--	--	--
05	06	07	08	--	--	--	--
09	10	11	12	--	--	--	--
13	14	15	16	--	--	--	--
				--	--	--	--

▶ ENTER RETURN CLEAR

Random Play (CD/MP3/WMA)

1 Press the PROG button.

2 Use the LEFT/RIGHT buttons to select RANDOM. Press the ENTER button. The disc will be played in random order.

PROGRAM ◀▶ RANDOM

ADVANCED FUNCTIONS

NOTE

- Depending on the disc, the Program and Random Play functions may not work.
- To resume normal play, press the CLEAR button.
- PROGRAM/RANDOM playback cannot be used if the memory card or disc contains more than two types of file extensions.

JPEG Playback

JPEG Play Function (Memory Card/CD-R/Photo CD)

1 Insert a CD-R written MP3 or WMA file into the tray and close it, or insert a Memory Card, following the photo to the right.

**NOTE** • Be sure to insert the Memory Card correctly. (Refer to page 32.)

2 Press the M.CARD button.
- Every time you push the M.CARD button, the system enters the Memory Card mode and the DVD/CD mode in turn.
- Memory Card mode : Plays the Memory Card
  DVD/CD mode : Plays the CD-R & Photo CD

3 As the screen shown in the right, it displays the file extensions saved in the memory card CD-R.
Press the UP/DOWN button to select JPEG in media types and press the ENTER button.
- If no button on the remote control is pressed for 60 seconds, the menu will disappear and the selected item will be played.
- To change the currently playing media, press the M.C. MENU/DISC MENU button.

4 The Album screen will appear.
- To see the next 6 images, press the ▶▶ and to see the previous 6 images, press the ◀◀ button.

5 Select an image and press the ENTER button.
- Use the UP/DOWN or LEFT/RIGHT buttons on the remote control to select the picture you want to view and then press the ENTER button.
- After selection of the picture, the following Menu Bar appears and then disappears after 10 seconds.
  Press the INFO button to bring up the Menu Bar.

- ▦ : Return to the Album Screen.

- ◪ : Each time the ENTER button is pressed, the picture rotates 90 degrees clockwise.

- 🔍 : Each time the ENTER button is pressed, the picture is enlarged up to 4X. (Normal → 2X → 4X → 2X → Normal)
  Press the INFO button in Normal mode to see the Menu screen.

- 🖾 : The unit enters slide show mode.
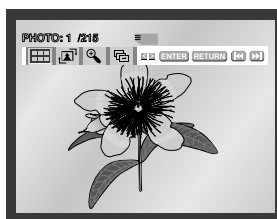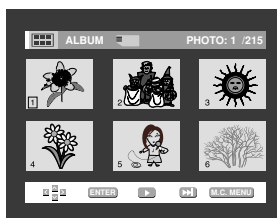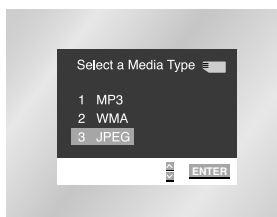
6 Select the Slide Show (🖾) and press the ENTER button. Press the left or right button to select one of the time intervals below. Press ENTER to start the slide show.

- ◔ : When this icon is selected and ENTER is pressed, the pictures change automatically in 5 second intervals.

- ◑ : The pictures change automatically in 10 second intervals.

- ◕ : The pictures change automatically in 15 second intervals.

- Press the INFO button to bring up the Menu Bar during the Slide show.

- If you don't press any button, the slide show starts automatically in 5 second intervals by default.

- During the slide show. Press PLAY/PAUSE (▶ll) button to stop the slide show to resume the side show.
  When you want to resume the slide show, press the PLAY/PAUSE (▶ll) button again.

After the slide show. Press PLAY (▶ll) button to return to the picture mode.
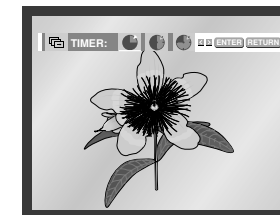
CD-R/Memory Card (JPEG)

- Only JPG Format Files with the ".jpg" and ".JPG" extensions can be played.
- If the CD-R disc is not closed, it will take longer to start playing and all of the recorded files may not be played.
- Only CD-R discs with JPEG files in ISO 9660 or Joliet format can be played.
- Only Memory Cards with FAT16 format can be played.
- The name of the JPEG file may not be longer than 8 characters and should contain no blank spaces or special characters (. / = +).
- Only a consecutively written multisession disc can be played. If there is a blank segment in the multisession disc, the disc can be played only up to the blank segment. (CD-R)
- Kodak Picture CDs can be played.
- Picture discs other than Kodak Picture CD may take longer to start playing or may not play at all.
- If the number of files in 1 Disc is over 500, only 500 JPEG files can be played.
- If the number of folders in 1 Disc is over 300, only JPEG files in 300 folders can be played.(CD-R)
- If the number of folders in 1 Disc is over 255, only JPEG files in 255 folders can be played.(Memory Card)
- It is able to replay the jpg file format up to 5 million dpi captured by a digital camcoder or camcoder.
  It supports all JPG file formats with the capacity of less than 3MB. (Memory Card)

ADVANCED FUNCTIONS

Using the Setup Menu

The Setup menu lets you customize your DVD player by allowing you to select various language preferences, set up a parental level, even adjust the player to the type of television screen you have.

1 With the unit in Stop mode, press the MENU button on the remote. Select **Setup** using UP/DOWN buttons, then press the RIGHT or ENTER button.

❶ **Language Setup :** Setup of the Language.

❷ **Audio Setup :** Setup of the Audio Options

❸ **Display Setup :** Setup of the Display Options
Use to select which type of screen you want to watch and several display options.

❹ **Parental Setup :** Setup of the Parental Level
Allows users to set the level necessary to prevent children from viewing unsuitable movies such as those with violence, adult subject matter, etc.

2 Use the UP/DOWN buttons on the remote to access the different features.

3 Press the ENTER button to access the sub features.

To make the setup screen disappear after setting up, press the MENU button again.

DVD	
Disc Menu	**Language Setup** ▶
Title Menu	**Audio Setup** ▷
Function	**Display Setup** ▶
Setup	**Parental Setup :** 🔓 ▶

ENTER RETURN MENU

NOTE

Depending on the disc, some Setup Menu selections may not work.

Setting Up the Language Features

If you set the player menu, disc menu, audio and subtitle language in advance, they will come up automatically every time you watch a movie.
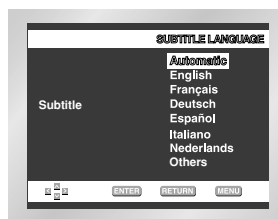
Using the Player Menu Language

1 With the unit in Stop mode, press the MENU button.

2 Select **Setup** using UP/DOWN buttons, then RIGHT or ENTER button.

3 Select **Language Setup** using UP/DOWN buttons, then press the RIGHT or ENTER button.

4 Select **Player Menu** using UP/DOWN buttons, then press the RIGHT or ENTER button.

5 Use the UP/DOWN buttons to select '**English**'.

6 Press the ENTER button.
- English is selected and the screen returns to SETUP menu.
- To make the SETUP menu disappear, press the RETURN or LEFT button.

Using the Disc Menu Language

This function changes the text language only on the disc menu screens.

1 With the unit in Stop mode, press the MENU button.

2 Select **Setup** using UP/DOWN buttons, then RIGHT or ENTER button.

3 Select **Language Setup** using UP/DOWN buttons, then press the RIGHT or ENTER button.

4 Select **Disc Menu** using UP/DOWN buttons, then press the RIGHT or ENTER button.

5 Use the UP/DOWN buttons to select '**English**'.
- Select "Others" if the language you want is not listed.

6 Press the ENTER button.
- English is selected and the screen returns to SETUP menu.

e.g Setting up in English.

DVD	
Disc Menu	**Language Setup** ▷
Title Menu	**Audio Setup** ▶
	Display Setup ▶

LANGUAGE SETUP	
Player Menu	: English ▷
Disc Menu	: English ▶
Audio	: English ▶
Subtitle	: Automatic ▶

PLAYER MENU LANGUAGE	
Player Menu	English
	Français
	Deutsch
	Español
	Italiano
	Nederlands

ENTER RETURN MENU

e.g Setting up in English.

DISC MENU LANGUAGE	
	English
Disc Menu	Français
	Deutsch
	Español
	Italiano
	Nederlands
	Others

ENTER RETURN MENU

**ADVANCED
FUNCTIONS**

Setting Up the Language Features

Using the Audio Language

1 With the unit in Stop mode, press the MENU button.

2 Select **Setup** using UP/DOWN buttons, then RIGHT or ENTER button.

3 Select **Language Setup** using UP/DOWN buttons, then press the RIGHT or ENTER button.

4 Select **Audio** using UP/DOWN buttons, then press the RIGHT or ENTER button.

5 Press the UP/DOWN buttons to select '**English**' .
- Select "Original" if you want the default soundtrack language to be the original language the disc is recorded in.
- Select "Others" if the language you want is not listed.

6 Press the ENTER button.
- English is selected and the screen returns to SETUP menu.

Using the Subtitle Language

1 With the unit in Stop mode, press the MENU button.

2 Select **Setup** using UP/DOWN buttons, then RIGHT or ENTER button.

3 Select **Language Setup** using UP/DOWN buttons, then press the RIGHT or ENTER button.

4 Select **Subtitle** using UP/DOWN buttons, then press the RIGHT or ENTER button.

5 Use the UP/DOWN buttons to select '**English**'.
- Select "Automatic" if you want the subtitle language to be the same as the language selected as the audio preference.
- Select "Others" if the language you want is not listed. Some discs may not contain the language you select as your initial language; in that case the disc will use its original language setting.

6 Press the ENTER button.
- English is selected and the screen returns to SETUP menu.

| AUDIO LANGUAGE |
| English Français Deutsch Español Italiano Nederlands Original Others |

Audio

| SUBTITLE LANGUAGE |
| Automatic English Français Deutsch Español Italiano Nederlands Others |

Subtitle

NOTE
- If the selected language is not recorded on the disc, the original pre-recorded language is selected.
- **How to make the SETUP menu disappear or return to menu screen during set up;** Press RETURN or LEFT button.

40

Setting Up the Audio Options

1 With the unit in Stop mode, press the MENU button.

2 Select **Setup** using UP/DOWN buttons, then RIGHT or ENTER button.

3 Select **Audio Setup** using UP/DOWN buttons, then press the RIGHT or ENTER button.

4 Use the UP/DOWN buttons to select the desired item. Then press the RIGHT or ENTER button.
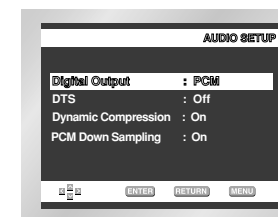
❶ **Digital Output**
  1. PCM : Converts to PCM(2CH) 48kHz audio. Select PCM when using the Analog Audio Outputs.
  2. Bitstream : Converts to Dolby Digital Bitstream (5.1CH). Select Bitstream when using the Digital Audio Output.

NOTE Be sure to select the correct Digital Output or no audio will be heard.

❷ **DTS**
  1. Off : Doesn't output digital signal.
  2. On : Outputs DTS Bitstream via digital output only. Select DTS when connecting to a DTS Decoder.

❸ **Dynamic Compression**
  1. On : To select dynamic compression.
  2. Off : To select the standard range.

❹ **PCM Down Sampling**
  1. On : Select this when the amplifier connected to the player is not 96KHz compatible. In this case, the 96KHz signals will be down converted to 48KHZ.
  2. Off : Select this when the amplifier connected to the player is 96KHz compatible. In this case, all signals will be output without any changes.

| DVD |
| Disc Menu — Language Setup ▶ |
| Title Menu — Audio Setup ▷ |
| Function — Display Setup ▶ |
| Parental Setup : ▶ |
| Setup |

| AUDIO SETUP |
| Digital Output : PCM |
| DTS : Off |
| Dynamic Compression : On |
| PCM Down Sampling : On |

NOTE
- **How to make the SETUP menu disappear or return to menu screen during set up;** Press RETURN or LEFT button.
- Manufactured under license from Dolby Laboratories. "Dolby" and the double-D symbol are trademarks of Dolby Laboratories.
- "DTS" and "DTS Digital Out" are trademarks of Digital Theater Systems, Inc.

CHANGING SETUP MENU

41

Setting Up the Display Options

1 With the unit in Stop mode, press the MENU button.

2 Select **Setup** using UP/DOWN buttons, then RIGHT or ENTER button.

3 Select **Display Setup** using UP/DOWN buttons, then press the RIGHT or ENTER button.

4 Use the UP/DOWN buttons to select the desired item. Then press the RIGHT or ENTER button.

❶ **TV Aspect**
Depending on the type of television you have, you may want to adjust the screen setting (aspect ratio).
1. 4:3 Letter Box :
   Select when you want to see the total 16:9 ratio screen DVD supplies, even though you have a TV with a 4:3 ratio screen. Black bars will appear at the top and bottom of the screen.
2. 4:3 Pan Scan :
   Select this for conventional size TVs when you want to see the central portion of the 16:9 screen. (Extreme left and right side of movie picture will be cut off.)
3. 16:9 Wide :
   You can view the full 16:9 picture on your widescreen TV.

❷ **Still Mode**
These options will help prevent picture shake in still mode and display small text clearer.
1. Auto : When selecting Auto, Field/Frame mode will be automatically converted.
2. Field : Select this feature when the screen shakes in the Auto mode.
3. Frame : Select this feature when you want to see small letters more clearly in the Auto mode.

❸ **Screen Messages**
Use to turn on-screen messages On or Off.

❹ **Front Display**
Adjust the brightness of the unit's front panel display.
1. Auto Dim : Makes the Front Panel Display dim automatically when playing a DVD.
2. Bright : Makes the Front Panel Display bright.
3. Dim : Makes the Front Panel Display dim.

❺ **Black Level**
Adjusts the brightness of the screen.(On/Off)
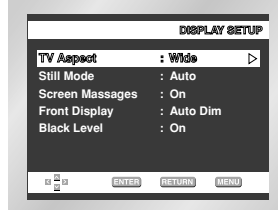
NOTE

• **How to make the SETUP menu disappear or return to menu screen during set up;**
 Press the RETURN or LEFT button.

Setting Up the Parental Control

The Parental Control function works in conjunction with DVDs that have been assigned a rating - which helps you control the types of DVDs that your family watches.
There are up to 8 rating levels on a disc.

1 With the unit in Stop mode, press the MENU button.

2 Select **Setup** using UP/DOWN buttons, then RIGHT or ENTER button.

3 Select **Parental Setup** using UP/DOWN buttons, then press the RIGHT or ENTER button.

4 Use RIGHT or ENTER to select **Yes** if you want to use a password. The **Enter Password** screen appears.

5 Enter your password. The **Re-enter Password** screen appears to confirm the password.
Enter your password again.
The Parental Control screen appears.

About the Rating Level ;
The Rating Level will work only when Use Password is set to Yes. To unlock the player, use UP/DOWN to select No. Use RIGHT or ENTER to select Rating level. Press ENTER.
- Use UP/DOWN to select the level(e.g. Level 6) and press ENTER. Discs that contain Level 7 will now not play.
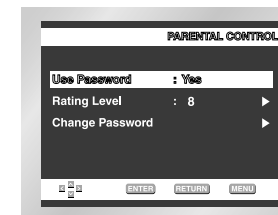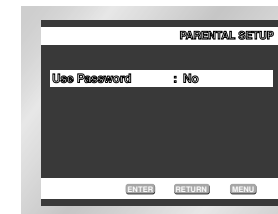- To cancel the rating level, use RIGHT or ENTER to select No in Use Password.
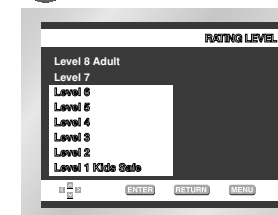
About the Change Password ;
- Use UP/DOWN to select Change Password.
 Press ENTER. The Change Password screen appears.
- Enter your new password. Re-enter the new password again.

e.g Setting up in LEVEL6.

CHANGING SETUP MENU

NOTE

• **How to make the SETUP menu disappear or return to menu screen during set up;**
 Press RETURN or LEFT button.
• If you have forgotten your password, see Forget Password in the Troubleshooting Guide.

Controlling a TV with the Remote

The remote can also be set up to control most TVs. To program the remote, use the code that corresponds to your brand.

TV Codes

Code	Brand	Code	Brand
01	SAMSUNG_1	16	SHARP_1
02	SHARP_2	17	ZENITH
03	SONY	18	LG_3
04	MAGNAVOX	19	DAEWOO_8
05	SANYO_1	20	SANYO_2
06	LG_2	21	EMERSON
07	RCA	22	SHARP_3
08	LG_1	23	SAMSUNG_4
09	TOSHIBA	24	PANASONIC_2
10	HITACHI	25	NOBLEX
11	JVC	26	TELEFUNKEN
12	PANASONIC_1	27	NEWSAN
13	MITSUBISHI_2	28	LOEWE
14	SAMSUNG_2	29	RCA2
15	SAMSUNG_3		

1 Turn on the TV

2 Point the DVD's remote at the TV.

3 While holding the TV POWER button down, enter the code for your brand.

4 If the TV turns off, setup is complete.

Enter other codes of the same brand if the first code does not work.

5 To operate the TV, use the "TV Function Buttons" described on page 13.

e.g For Samsung_1 TVs

While holding down the TV POWER button, enter 0 and then 1.

NOTE

The remote may not be able to control every model TV of the brands listed.

Troubleshooting

Before requesting service (troubleshooting), please check the following.

Problem	Action	Page
No operations can be performed with remote.	• Check the batteries in the remote. May need replacing. • Operate the remote control at a distance of no more than 20 feet. • Remove batteries and hold down one or more buttons for several minutes to drain the microprocessor inside the remote to reset it. Reinstall batteries and try remote again.	P5
Disc does not play.	• Ensure that the disc is installed with the label side facing up. • Check the region number of the DVD.	P8
5.1 channel sound is not being reproduced.	• 5.1 channel sound is reproduced only when the following conditions are met. : 1) The DVD player is connected with the proper amplifier 2) The disc is recorded with 5.1 channel sound. • Check whether the disc being played has the "Dolby 5.1 ch" mark on the outside. • Check if your audio system is connected and working properly. • In a SETUP Menu, is the Audio Output set to Bitstream?	P14 P41
The ⊘ icon appears on screen.	• The features or action cannot be completed at this time because: 1. The DVD's software restricts it. 2. The DVD's software doesn't support the feature (e.g., angles). 3. The feature is not available at the moment. 4. You've requested a title or chapter number or search time that is out of range.	P17
Disc Menu doesn't appear.	• Check if the disc has a Menu.	
Play mode differs from the Setup Menu selection.	• Some of the functions selected in the Setup Menu may not work properly if the disc is not encoded with the corresponding function.	P38~43
The screen ratio cannot be changed.	• The Screen Ratio is fixed on your DVDs.	P42
No audio.	• Make sure you have selected the correct Digital Output in the Audio Options Menu.	P41
Forgot password	• Press power on from a cold start with no disc in the unit. Press the STOP (■) and PLAY (▶❙❙) buttons simultaneously on the front panel for three seconds. The Select Menu Language display will appear. Select the desired language button. Press the MENU button on the remote control to select the Parental Mode. The Parental Mode is now unlocked as indicated on the display. Press the DOWN button to select Parental. Press ENTER and the Create Password display will appear. You can now set your rating level and change your password to a new number.	P43
If you experience other problems.	• Go to the contents and find the section of the instruction book that contains the explanations regarding the current problem, and follow the procedure once again. • If the problem still cannot be solved, please contact your nearest authorized service center.	

REFERENCE

Specifications

General	Power Requirements	AC 120 V, 60 Hz
	Power Consumption	12 W
	Weight	5.3 lbs
	Dimensions	W 16.9 in x D 9.4 in x H 2.4 in
	Operating Temperature Range	+41°F to +95°F
	Operating Humidity Range	10 % to 75 %
Disc	DVD (DIGITAL VERSATILE DISC)	Reading Speed : 11.45 ft/sec. Approx. Play Time (Single Sided, Single Layer Disc) : 135 min.
	CD : 5" (COMPACT DISC)	Reading Speed : 3.9 to 4.6 ft/sec. Maximum Play Time : 74 min.
	CD : 3$_{1/2}$" (COMPACT DISC)	Reading Speed : 3.9 to 4.6 ft/sec. Maximum Play Time : 20 min.
Video Output	Composite Video	1 channel : 1.0 Vp-p (75 Ω load)
	Component Video	Y : 1.0 Vp-p (75 Ω load) Pr : 0.70 Vp-p (75 Ω load) Pb : 0.70 Vp-p (75 Ω load)
	S-VIDEO	Luminance Signal : 1.0 Vp-p (75 Ω load) Chrominance Signal : 0.286 Vp-p (75 Ω load)
Audio Output	2 Channel	L(1/L), R(2/R)
	*Frequency Response	48 kHz Sampling : 4 Hz to 22 kHz 96 kHz Sampling : 4 Hz to 44 kHz
	*S/N Ratio	110 dB
	*Dynamic Range	100 dB
	*Total Harmonic Distortion	0.004 %

*: Nominal specification

• Samsung Electronics Co., Ltd reserves the right to change the specifications without notice.
• Weight and dimensions are approximate.

Warranty